

AMENDMENTS TO THE SPECIFICATION:

The Office Action objected to page 13, line 26, of the application for making reference to non-existent FIG. 1B. Accordingly, please replace the paragraph beginning on page 13, line 25, and ending on page 13, line 26, with the following amended paragraph.

FIG. 5 shows the internal configuration of the SISO processor for the parallel turbo decoder shown in FIG. 1B1.

Please replace the paragraph beginning on page 8, line 16, and ending on page 8, line 28, with the following amended paragraph.

The technique, referred to as in-place addressing, uses the same memory locations to read and write path metric values as information applied to a decoder is being processed as per a particular trellis. The technique is able to process information as per different trellises having different number of states. Thus, for example, the equipment can be configured to implement the SISO processors can be processing information as per a 16-state trellis and the same equipment can be reconfigured for processing other information as per a 4-state trellis. The ability for a SISO processor to process information differently at different times reduces significantly the burdensome equipment requirements of SCCC decoders. Further the in-linein-place addressing technique allows a turbo decoder to process a portion of the states of the trellis during a particular clock cycle; this allows processing of information as per an N-state trellis -- where N is a relatively large number-- without the need for burdensome equipment (i.e., hardware and/or software) requirement. N is a power of 2 integer equal to 2 or greater.

The amendment replaces the phrase --in-line addressing-- with the phrase --in-place addressing--. It is respectfully submitted that the present application uses the phrases --in-place addressing-- and --in-line addressing-- interchangably. However, the majority of the references use the phrase --in-place addressing--. Therefore, in the interest of consistency, the reference to --in-line addressing-- in the paragraph above and in a related recitations in claims 1 and 10-14 are being replaced with references to --in-place addressing--.

It is submitted that support for the amendments is found throughout the specification, including, for example, page 8, line 10, and page 8, line 16 (the first line of the subject paragraph). Therefore, it is respectfully submitted the amendment to the subject paragraph (and to claims 1 and 10-14) does not represent new matter.